

AP40
TEST REPORT



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Steve Gilbert (Road Metals)
 Date sampled : 14 February 2025
 Sampling method : NZS 4407: 2015 (2.4.6.3.2)
 Sample description : AP40
 Sample condition : Damp as received
 Source : Rolleston Quarry

Project No : 6-JRMCO.16/6LC
 Lab Ref No : CH12434
 Client Ref No : 915-167

Particle Size Distribution		
Sieve Size (mm)	Percentage Passing	
	Sample	Limits
63.0	-	
37.5	100	
19.0	81	
9.5	46	
4.75	29	
2.36	21	
1.18	17	
0.600	15	
0.300	12	
0.150	8	
0.075	6	

% passing the finest sieve is obtained by difference

Grading Shape Control		
Fraction (mm)	% Within Fraction	
	Sample	Limits
19.0 - 4.75	52	28 - 48
9.5 - 2.36	25	14 - 34
4.75 - 1.18	12	7 - 27
2.36 - 0.600	6	6 - 22
1.18 - 0.300	5	5 - 19
0.600 - 0.150	7	2 - 14

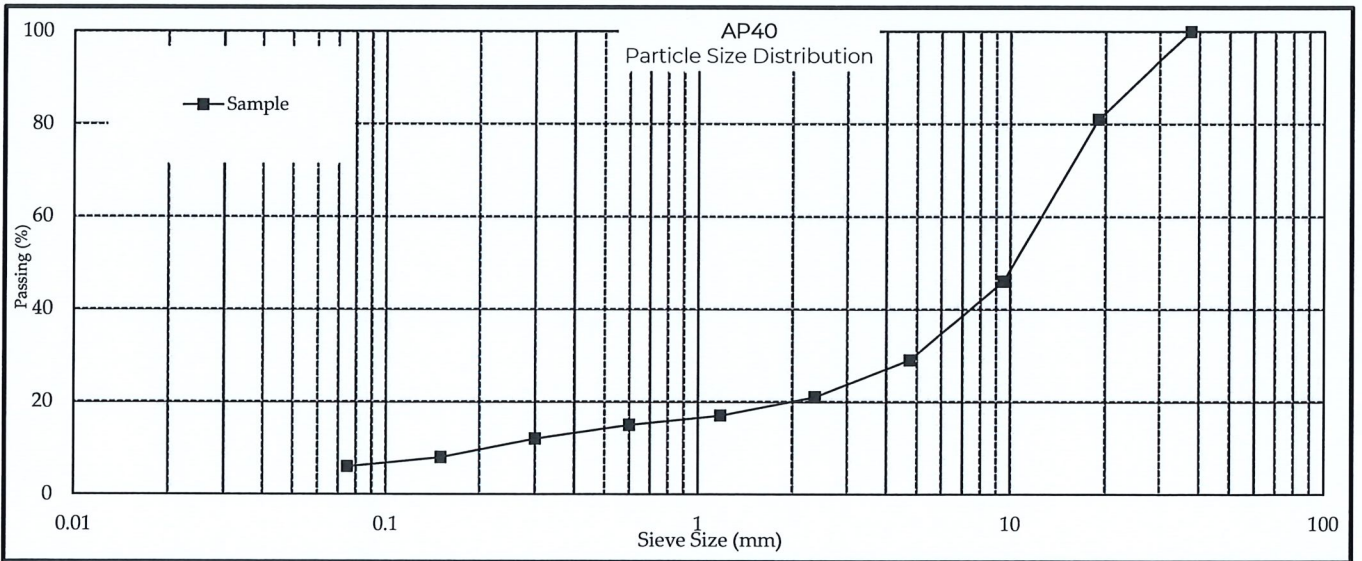
Crushing Resistance		
% Fines @ Spec. Load	-	%
Specification	-	%
Crushing Resistance	-	kN
Nom Aggregate Size	-	mm
Specified Load	-	kN

Broken Faces Content of Aggregate		
Fraction (mm)	Percentage by Weight	
	Sample	Lower Limit
37.5 - 19.0	-	
19.0 - 9.5	-	
9.5 - 4.75	-	

Plasticity Index	
Sample PI	Non Plastic
Specification	

Clay Index	
Sample CI	0.5
Specification	

Sand Equivalent (Washed, Mechanical Shaking)	
Sample SE	-
Specified	



Test Methods			
Plasticity Index	NZS 4407 : 2015 : Test 3.4		
Particle Size Distribution	NZS 4407 : 2015 : Test 3.8.1	Clay Index	NZS 4407 : 2015 : Test 3.5

Date tested : 26 February 2025
 Date reported : 11 March 2025
 Sampling is covered by IANZ Accreditation
 This report may only be reproduced in full
 All information supplied by Client

Approved Signatory 
 Designation : Laboratory Manager
 Date : 11 March 2025



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

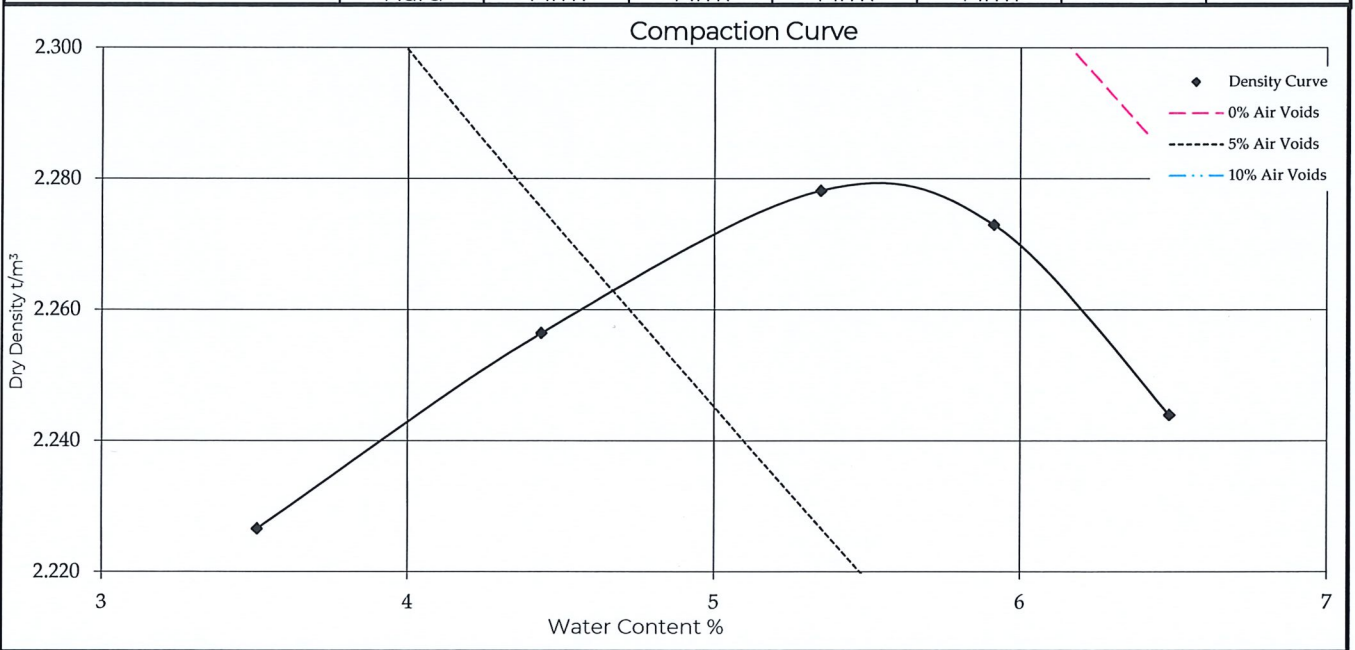
**DRY DENSITY / WATER CONTENT RELATIONSHIP
VIBRATING COMPACTION**



Project : Quality Assurance
 Location : Production Stock
 Client : Road Metals Company Limited
 Contractor : Various
 Sampled by : Steve Gilbert (Road Metals)
 Date sampled : 14 February 2025
 Sampling method : NZS 4407: 2015 (2.4.6.3.2)
 Sample description : AP40
 Sample condition : Damp as received
 Solid density : 2.68 t/m³ (Assumed)
 Source : Rolleston Quarry

Project No :	6-JRMCO.16/6LC
Lab Ref No :	CH12434
Client Ref No :	915-167


Test Results							
Maximum dry density	2.28	t/m ³	Natural water content		3.5	%	
Optimum water content	5.4	%	Fraction tested		Whole		
Sample ID	Nat	+1%	+2%	+3%	+4%		
Bulk density	t/m ³	2.305	2.357	2.400	2.407	2.390	
Water content	%	3.5	4.4	5.3	5.9	6.5	
Dry density	t/m ³	2.227	2.256	2.278	2.273	2.244	
Sample condition	Moist Hard	Wet Firm	Wet Firm	Wet Firm	Saturated Firm		



Test Methods	Notes
Compaction NZS 4402 : 1986 : Test 4.1.3	All information supplied by Client

Date tested : 24 February 2025
 Date reported : 11 March 2025

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Approved Signatory 
 Designation : Laboratory Manager
 Date : 11 March 2025



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